

Nonlinear Properties of Crystal Communications
Lines Containing Ferromagnetic Materials, by
I. Ye. Efimov, 14 pp, (AF 1061925).

RISIAN, no par, Elektrosvyaz', No 12, Dec 1956,
p. 57-66. CIA 638392

ATTC F-TS-9163/v

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Comparison of Stability of Transmission by Voice-
Frequency Carrier Telegraphy With Frequency and A
Amplitude Modulation, by M. B. Rabinovich, 6 pp.
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pp 67-70. CIA 638392

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pp 71-75. CIA 638392

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'Elektrosvyaz' in 1956, 7 pp (AF 1061925)

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pp 77-80. CIA 638392

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On the Transmission of a Nonuniform Binary
Sequence Using a Uniform Code, by E. L. Blokh,
2 pp.

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On the Experimental Determination of the Probability
for Correct Reception of a Signal. "In the Large",
by B. M. Pushnoi, 5 pp.

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A Method for Formulating an Optimal Binary Code,
by V. A. Gerasimov.

RUSSIAN, per, *Elektrosvyaz'*, No 2, Feb 1959, pp
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, Aug 59

93, 842

61-16150

I. Shata, V. M.

ATS/RJ-2641

176622

Office of Technical Services

Shata, V. M.

THE TRANSMISSION OF A GROUP SIGNAL WITH
FREQUENCY DIVISION OF THE CHANNELS BY THE
PULSE CODE MODULATION METHOD (O Peredache
Gruppyvogo Signala s Chastotnym Deleniem Kanalov
Metodom Kovodno-Impul'snoi Modulatsii). [1960] 13p.
Order from OTS or SLA \$1.60 61-16150

Trans. of 'Elektrosvyaz' (USSR) 1959, v. 13, no. 2,
p. 43-54.

Another translation is available from ATS \$14.75 as
ATS-66M39R.

DESCRIPTORS: "Signals, "Telephone signals,
Transmission, Pulse modulation, "Pulse communication
systems, Communication systems.

We consider the quantizing noise arising in the
transmission of a group signal with frequency division
of the channels by the pulse code modulation method,
(Engineering--Electronic, TT, v. 6, no. 6) (over)

An Artificial Telephone Traffic Machine, by
V. H. Leterson, Z. F. Greybo, 9 p.

RUSSIAN, per, Electrosvyaz, 1959, Vol XIII, No 2,
pp 68-71.

ATS-21135R
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a- Regarding the Theory of Ciphering of ~~Telegrams~~ by
Means Uniform Correcting Code, by V. I. Siforov,
L. F. Borodin, 18 pp.

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Telecom 41583

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Design and Analysis of Single-Cycle Magnetic
Logic and Trigger-Commutation Networks, by
In. G. Koblenz, 48 pp.

RUSSIAN, per, Elektronika' No 3, 1959, pp 73-81.

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Analysis of the Statistical Structure of Text
Phototelegrams, by V. G. Frolovskii.

RUSSIAN, per, Elektrosvyaz, No 5, 1959, pp 63-70.

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Phototelegraphy from the Point of View of Telegraphy,
A. A. Kharkovich.

RUSSIAN, per, 'Elektronika', No 5, May 1959, pp
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Vol I, No 10

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Frequency Dividers Using Ferrites and Transistors,
by L. A. Chinenkov, E. A. Denin.

RUSSIAN, per, Elektrosviaz, No 6, 1959, pp 11-17.

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Automation Express
Vol II, No 3

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(DC-3450).

Back-Scattered Observations and Problems of
Long-Distance Radio Communication and Broadcasting,
by K. M. Koshkov, 8 pp.

RUSSIAN, per, Elektronika, No 7, 1959, pp 10-16.

JPRS 3340

Sci - Electronics
Jun 60

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Methods of Reducing the Bandwidth of Television
Signals, by N. K. Ignat'yev, A. K. Kustarev,
24 pp.

RUSSIAN, per, Elektrosvyaz, Vol. XIII, No 8,
1979, pp 14-23.

SLA 60-16952

Sci.
Vol. IV, No 8
29 May 62

198, 228

Asymmetric Construction of Optimum Codes, by B. M.
Fushchik, 13 pp.

RUSSIAN, per, Elektronika, Vol XIII, No 10, 1959,
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On the Character of Signal Distortion in a
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Tropospheric Communication Lines, by M. P.
Dolukhanov, 6 pp.

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Evaluation of Methods for Calculating Maximum Usable
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RUSSIAN, par, *Elektrosvyaz*, No 11, 1959, pp 17-23.

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The Efficiency of an USW (Ultrashort Wave) Meteor-Burst
Communication System, by A. Magazanik, 10 pp.

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Patrunov, V. G.
THEORY OF MAGNETIC RECORDING OF IMAGES.
[1962] [13] p. (5 figs., 9 formulas, 1 table omitted)
12 refs.

Order from ODS or SLA \$1.60

62-14208

Trans. of 'Elektricheskaya' (USSR) 1959, no. 12, p. 35-42.

DESCRIPTORS: *Ferromagnetic materials, Powders
*Magnetic recording systems, Theory.

Examination of forces acting on particle of ferromagnetic powder, by means of which the magnetic recording is visualized. There are also evaluated the technological problems and materials for recording images and obtaining impressions on paper. (Author)

(Engineering--Electronic, TT, v. 8, no. 9)

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I. Patrunov, V. G.

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Pergamon Press

Documentary on Electronovye, 3 pp. UNCL

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Millimicrosecond Pulse Generator MFG-23, by V. S.
Chilikin, 8 pp.

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USASIA Tr-1187

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Optimum Preselection for Multichannel Frequency-Multiplexed and Frequency-Modulated Radio Relay Systems, by E. A. Kalabekov, G. A. Levin, 16 pp.

RUSSIAN, per, Elektrosvyazi, No 1, 1960, pp 45-55.

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Apparatus for Measuring Irregularities in Waveguides,
by A. S. Vladimirov, 20 pp.

RUSSIAN, per, Elektrosvyazi, No 2, 1960, pp 3-13.

URASIA Tr-1179

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Crosstalk Dampening a Periscopic Antenna System, by
A. M. Pokras, 9 pp.

RUSSIAN, per, Elektrosvyaz, No 2, 1960, pp 14-19.

USNSIA Tr-1181

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OTS 62-32001

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Passage of Radio Pulses Through a Detuned Selective
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RUSSIAN, per, Elektrosvyazi, No 2, 16 1960, pp 20-27.

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OTS 61-28126

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Determination of the Screening Coefficient of a
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RUSSIAN, per, Elektrosvyazi, No 2, 1960, pp 66-70.

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Coding Which is Stable With Respect to Fading
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A. A. Kharkovich, 6 pp.

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← Calculation of Intermediate-Frequency
Amplitudes for Radio Relay Stations of Communi-
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B. A. Kalabekov, 14 DP. 9672576

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pp 38-43.

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Cross-Distortion in the Joint Transmission of
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Yu. T. Maksimov, L. P. Markadar, 19 pp.

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30p 61

61-23299

Levin, G. A., Levin, B. R. and others.
INCREASED EFFICIENCY OF MULTI-CHANNEL
SYSTEMS WITH TIME-DIVISION OF CHANNELS
(Povysheniye Effektivnosti Mnogokanal'nykh Sistem s
Vremennym Razdeleniem Kanalov). [1961] (8)p. 5 refs.
[DSIR LLU] M. 2799.

Order from OTS or SLA \$1.10

61-23299

Trans. of 'Elektrosvyaz' (USSR) 1960 [v. 14] no. 5,
p. 10-16.

DESCRIPTORS: *Pulse communication systems, Effec-
tiveness, Tests.

Possibilities are indicated for raising the channel ca-
pacity of pulse communications systems by employing
the statistics of instantaneous values of a signal and the
activity of telephone channels. A theoretical investiga-
tion is made into interval pulse-time modulation which
enables these possibilities to be implemented. (Author)

I. Levin, G. A.
II. Levin, B. R.
III. DSIR LLU M. 2799

125530

(Engineering--Electronic, TT,
v. 6, no. 9)
Office of Technical Services

Waveguide Measures, 4 pp.

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pp 38-44.

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Sudden Attenuation of Radio Shortwaves in the
Ionosphere (1938-1950), by G. M. Bartenev, 12 pp.

RUSSIAN, per, Elektrosvyaz, No 5, 1960, pp 45-50.

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Sci - Electronics
Jul 61

OTS 62-32 442

159,297

The Transmission of Discrete Signals by Means of
Pulse-Difference Keying, by N. P. Bobrov.

RUSSIAN, per, 'Elektrosvyaz', No 6, 1960, pp 3-9.

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Scl - Engc

Jan 62

180.048

Calculation of Noise in the Channels of a Radio
Relay Line With the Introduction of Predistortions,
by E. L. Gerasimov, 8 pp.

RUSSIAN, per, Elektrosvyaz, No 6, 1960, pp 28-32.

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Long-Range Tropospheric Propagation of Ultrashort W
Waves, by A. I. Kalinin, 20 pp.

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pp 39-49. 9672601

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Parameters of a Overhead Communication Line at
High Frequencies, by V. V. Roditi, 6 pp.

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Sci - Electron

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Influence of Direct-Current Electric Railways
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cal Cable Trunk Line Apparatus, by V. M.
Bashuyev, 11 pp.

RUSSIAN, per, Elektrosvyaz', No 6, 1960,
pp 18-65. 9672602

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Sci - Electron

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(NY-2900/27)

Specialized Computing Machine for Harmonic
Synthesis and Harmonic Analysis, by A. M.
Layevskiy, L. M. Rakhovich, 6 pp.

RUSSIAN, per, 'Elektrosvyaz', No 6, 1960,
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JPRS 7329

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Quantization Noises in Coding Signals of
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14 pp.

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pp 3-12. 96767380

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28 May 62

On the Combination Reception of Signals Separated
by Means of Arrival Angle in Long-Distance
Tropospheric UHF Communication, by A. S.
Nesirovskiy, 10 pp.

RUSSIAN, par, Elektrosvyaz', No 8, 1960,
pp 19-25.

OTS 62-32656
UBASIA T: 1197

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Electromagnetic Coupling Between Twisted Circuits
in High-Frequency Cables of Symmetrical Construc-
tion, by V. O. Shwartsman, 13 pp.

RUSSIAN, par, Elektrosvyaz', No 8, 1960,
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Potential Noise Stability in Short-Wave Radio-
telegraphy, by D. D. Klovskiy, 13 pp.

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Sci - Electron

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Design of Resonance Ferrite Tubes, by A. L.
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Increased Efficiency of Multi-Channel Systems
With Time-Division of Channels, by G. A. Levin,
et al.

RUSSIAN, per, Elektrosvyaz', Vol V, No 10, 1960,
pp 10-16.

NLL M. 2799

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Protective Effect of a Periscopic Antenna System,
by A. M. Pokras, 10 pp.

RUSSIAN, par, Elektrosvyaz', No 10, 1960.
pp 21-26.

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Sci - Electron

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DTI 64-38592

Waveguides With Low Losses, by M. I.
Kaznacheyev, 10 pp.

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pp 47-52.

OTS 62-22597
USASIA Tr 1202

Sci - Electron

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(DC-5257)

R-500 Radio Relay System, by N. N. Kamenskiy,
14 pp. *Uncl.*

RUSSIAN, per, Elektronika, No 10, Oct 1960,
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ACM 12-177

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Determination of the Transmission Level in HF
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by S. A. Dvorkin, 12 pp.

RUSSIAN, per, Elektrosvyaz, No 10, 1960, pp 62-69.

UBASIA Tr 1204

Sci - Electron

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Frequency and Amplitude Detection of the Beats
of Two Harmonic Voltages, by V. M. Sidorov,
21 pp.

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168, 291

Sci - Electron

See 51

Achievement of Highly-Stable Variable Frequency
by Means of Phase Self-Tuning, by B. P.
Terent'yev, V. V. Shalagin'dyan, 11 pp.

RUSSIAN, per, Elektrosvyaz', No 11, 1960,
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On the Design of Pulse Transformers Using Ring
Ferrite Cores, by S. P. Mironov, 13 pp.

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Waveguide Components for Millimeter Waves, by
Yu. I. Kasnachev,

RUSSIAN, per, Elektrosvyas, No 11, 1960,
PP 48-53.

OTS 62-32604
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cation Cable Circuits, by V. O. Shvartsman,
14 pp.

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OTS 62-52 485
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On Certain Classes of Ternary Codes, by K. A.
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The Dependence of Scatter Power on the Statistical
Characteristics of a Turbulent Atmosphere, by
A. V. Prosin, 13 pp.

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Sci - Geophys
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Prosin, A. V.
THE DEPENDENCE OF SCATTER POWER ON THE
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ATMOSPHERE. [1962] [14]p. 5 refs. [USASIA] Trans.
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62-32630

Trans. of 'Elektrosvyaz' (USSR) 1960 [v. 14] no. 12
[p. 3-10].

DESCRIPTORS: Atmosphere, *Troposphere, *Atmospheric motion, Dielectric properties, Permeability, *Radio waves, Propagation, *Scattering, Statistical functions, Antennas

On the basis of the correlation function and assuming the intensity of the dielectric permeability fluctuations to be arbitrarily and progressively dependent on height, a general method has been worked out for the calculation (Physics--Wave Propagation, TT, v. 9, no. 9) (over)

- I. Prosin, A. V.
- II. USASIA Trans-1142
- III. Army Signal Intelligence Agency, Arlington, Va.

Office of Technical Services

Efficiency and Interference-Suppression of
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Certain Problems Involving the Operation of a
Radio Detector, by B. I. Savitskiy, 15 pp.

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UBASIA, Tr 1213

Sci - Electron

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Parameters of a Semiconductor Triode Under
High-Frequency Conversion Conditions, by M. E.
Novshovich, 14 pp.

RUSSIAN, per, Elektrosvyaz', No 12, 1960.
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Quantum Paramagnetic Amplifiers of Ultra
High Frequencies, by V. B. Shteynshleyger, 12 pp.

RUSSIAN, per, Elektrosvyaz', No 12, 1960,
pp 38-44.

SLA 62-32611
USASIA Tr 1215

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Contactless Telegraphic Test Signal Emitter,
by K. A. Brusilovskiy, Z. I. Karsay, 9 pp.

RUSSIAN, per, Elektrosvyaz, No 12, 1960,
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SIA 62-32612
USASIA Tr 1216

Sci - Electron

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Certain Problems of Antenna Design, by G. A.
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pp 69-71.

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New Method of Speech Spectrum Synthesis, by
A. M. Polykovskiy, 10 pp.

RUSSIAN, par, Elektrosvyaz, No 12, 1960,
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5-17 62-32615
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Interference-Resistance in Telegraph Communication
Over a Telephone Channel of a Tropospheric Line,
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VOL. 17-18, 1963

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(Telecommunications and Radio
Engineering - monthly)
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Order from: Scripta Publishing Corporation
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Washington, D.C. 20005
1970 '71: \$ 125.00/year USA and Canada
\$ 127.00/year elsewhere
Price of back volumes available on request
(Prepayment required - surface mail postage
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The Problem of Synthesizing Broad-Band Phase
Shifters, by N. F. Semakova, 12 pp.
RUSSIAN, per. Elektrosvyaz' i Radiotekhnika,
1964, pp 63-74.
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70-11437-09A (e)

Problem of Thermionic Conversion of Heat Into
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JPRS 16313

Sci - Electronics, Engr

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